Application No. 10/684,408

Amendment dated September 5, 2006

Reply to Office Action dated June 5, 2006

AMENDMENTS TO THE CLAIMS:

(currently amended) A MOSFET based, high voltage, high current AC electronic relay, 1. comprising:

a MOSFET switching circuit selectively switching between switch conducting and switch isolation, wherein the MOSFET switching circuit includes first and second power MOSFETs and a depletion mode MOSFET;

a transformer arrangement electrically connected coupled to the MOSFET switching circuit, the transformer arrangement selectively applying a predetermined voltage to the MOSFET switching circuit which establishes the MOSFET switching circuit in switch conducting, the transformer arrangement including a primary winding connected to a first secondary winding and a second secondary winding, each of the first and second secondary windings are connected to a full bridge rectifier the output of which is coupled to the MOSFET switching circuit.

- (currently amended) The electronic relay according to claim 1, further including an oscillator 2. connected to the transformer arrangement.
- 3. (canceled)
- (currently amended) The electronic relay according to claim [3] 1, wherein the depletion 4. mode MOSFET is connected between gates and sources of the respective first and second power MOSFETs.

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- 5. (currently amended) The electronic relay according to claim [4] 1, further including a small signal MOSFET connected between gates and sources of the respective first and second power MOSFETs
- 6-19. (canceled)